

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Darrell Rinerson et al.

Attorney Docket No.: UNTYP020

Application No.: 10/634,636

Examiner: Not Assigned

Filed: August 4, 2003

Group: 2818

Title: 2-TERMINAL TRAPPED CHARGE

MEMORY DEVICE WITH VOLTAGE

SWITCHABLE MULTI-LEVEL RESISTANCE

Confirmation No.: 7199

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as first-class mail on January 9, 2004 in an envelope addressed to the Commissioner for Patents, P.O. Box 1450

Alexandria, VA 22313-1450.

INFORMATION DISCLOSURE STATEMENT 37 CFR §§1.56 AND 1.97(b)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

The references listed in the attached PTO Form 1449, copies of which are enclosed**, may be material to examination of the above-identified patent application. Applicants submit these references in compliance with their duty of disclosure pursuant to 37 CFR §§1.56 and 1.97. The Examiner is requested to make these references of official record in this application.

This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that these references indeed constitute prior art.

This Information Disclosure Statement is: (i) filed within three (3) months of the filing date of the above-referenced application, (ii) believed to be filed before the mailing date of a first Office Action on the merits, or (iii) believed to be filed before the mailing of a first Office Action after the filing of a Request for Continued Examination under §1.114. Accordingly, it is believed that no fees are due in connection with the filing of this Information Disclosure

^{**} Copies of U.S. Patents and U.S. Published Applications are not enclosed.

Statement. However, if it is determined that any fees are due, the Commissioner is hereby authorized to charge such fees to Deposit Account 500388 (Order No. UNTYP020).

Respectfully submitted,

BEYER WEAVER & THOMAS, LLP

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Form 1449 (Modified) Information Discloser PADELLE Statement By Applicant (Use Several Sheets if Necessary) Atty Docket No. UNTYP020 10/634,636 Applicant: Rinerson et al. Filing Date August 4, 2003 2818

U.S. Patent Documents

Examiner						Sub-	Filing
Initial	No.	Patent No.	Date	Patentee	Class	class	Date
	A	6,204,139	2001-03-20	Liu et al.			

Other Documents

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Initial	No.			
	В	Basun, S. A. et al., "Photoinduced Phenomena in $Sr_{1-X}CA_XTiO_2$, $0 \le x \le 0.12$ ", Ferroelectrics, Vol. 183, 1996,255-264.		
	С	Baiatu, T. et al., "dc Electrical Degradation of Peroskite-Type Titanates: III, A Model of the Mechanism", J. Am. Ceram. Soc., Vol. 73, No. 6, 1990,1663-73.		
	D	Beck, A. et al., "Reproducible switching effect in thin oxide films for memory applications", Applied Physics Letters, Vol. 77, No. 1, 3 July 2000,139-141.		
	E	Koidl, P. et al., "Photochromism in Ni-doped SrTiO ₃ ," Physical Review B, Vol. 14, No. 7, 1 October 1976, 2703-2708.		
	F	Millis, A. J., "Lattice Effects in Magnetoresistive Manganese Perovskites," Nature, Vol. 392, 12 March 1998, 147-150.		
	G	metal structure during bistable switching," Journal of Applied Physics, Vol. 90, No. 6, 15 September 2001, 2892-2898. Simmons, J. G., "New Conduction and Reversible Memory Phenomena in thin insulating films," Proc. Roy. Soc. A., 301, 77-102, 1967.		
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Examiner		Date Considered		

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form 1449 (Modified)

Information Disclosure Statement By Applicant

(Use Several Sheets if Necessary)

Atty Docket No.

UNTYP020

Applicant: Rinerson et al.

Filing Date

August 4, 2003

Application No.:

10/634,636

Group 2818

Other Documents

		Other Documents
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Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication Waser, R., et al., "dc Electrical Degradation of Peroskite-Type Titanates: I, Ceramics", J. Am. Ceram. Soc., Vol. 73, No. 6, 1990,1645-53.
	K	Waser, R., et al., "dc Electrical Degradation of Peroskite-Type Titanates:II, Single Crystals", J. Am. Ceram. Soc., Vol. 73, No. 6, 1990,1654-62.
	L	Waser, R., et al., "Bulk Conductivity and Defect Chemistry of Acceptor-Doped Strontium Titanate in the Quenched State", J. Am. Ceram. Soc., Vol. 74, No. 8, 1991,1934-40.
	M	Watanabe, Y. et al., "Current-driven insulator-conductor transition and nonvolatile memory in chromium-doped SrTiO ₃ single crystals", Applied Physics Letters, Vol. 78, No. 23, 4 June 2001, 3738-3740.
	N	Zimmermann, M.V., et al, "X-Ray Resonant Scattering Studies of Orbital and Charge Ordering in Pr_{l-x} Ca _x MnO ₃ ," Physical Review B., Volume 64, 195133, 1-17.
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Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.